SACM CHECKLIST

PART I - SITE LOCATION AND ASSESSMENT INFORMATION

CERCLIS No. OKD001010917

State OK | **SSID**

Site Name and Address

Wilcox Refinery
Refinery Road
Bristow, OK

City	State	Zip	County	County Code	Cong Dist
Bristow	OK		Creek		

Physical Location (directions to site)
Travel West on I-44 from Tulsa for 35 miles; exit state highway 66 and continue south about 0.5 mile to an unnamed section of line road; turn left at section line road and travel 0.2 mile east until you reach the site.

Latitude 35°50'31" **Longitude** 96°23'02"

Source (topo)

Point on the site at which it was calculated (geographical center, entry gate, etc.)

Datum

Quadrangle Name

Bristow, OK

Section	Township	Range
29	16N	9E

Type of Ownership

☐ Municipal ☒ Private ☐ Federal ☐ Indian Nation ☐ State ☐ County ☐ Other _____

Assessment Information Ref. #(s) _____

Date
6/13/97

Site Status
☐ Active ☒ Inactive ☐ Not Specified

Years of Operation
☐ Unknown 1928 / 1963
Begin End

Agency Performing Inspections Ref. #(s) _____

Primary Inspectors	**Title**	**Organization**	**Telephone**
David Crow	EPA START	Ecology and Environment	214/220-0318
Ben Martich	EPA START	Ecology and Environment	214/220-0318
Other Inspectors			
Site Representatives Interviewed/Contacted			

Access Gained By ☐ Verbal Consent ☐ Written Consent ☐ Warrant
off-site inspection

Time
0815

Weather
rain then partly sunny

Site Identified	CERCLIS Identification Date	EPA Contact Lon Biasco
☐ Federal ☒ State/Local ☐ Citizen Complaint ☐ Other _____	OKD001010917	Telephone Number 214/665-6673

PART II - SITE BACKGROUND AND REGULATORY STATUS

Owner/Operator History Ref. #(s) _____

Current	[redacted] (b) (6)
	First Assembly Church of God
Previous	Wilcox Oil Company

Site Regulatory History PA by OD5Q, ESI by EPA Ref. #(s) _____

Permits

☐ NPDES ☐ State Permits ☐ UIC ☐ RCRA Part A ☐ RCRA Part B ☐ Local Permits ☐ Air

☐ TACB ☐ SPCC Plan ☐ Other _____

Dates and Description of Previous Investigations

PRP Search by EPA on December 9, 1994

Expended Site Investigation (ESI) for EPA by Wester, Inc., in 1996

PA by the Oklahoma Department of Environmental Quality (ODEQ) on 12/15/94

Dates and Description of Previous Removal Actions

None

Dates and Description of Previous State or RCRA Corrective Actions

None

PART III - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

Potential Threat of Fire and/or Explosion

Unlikely based on existing information.

i.e. Unstable hazardous materials stored on-site, reactive materials disposed of together, former military site with unexploded ordnance?

Potential Threat of Direct Contact With Hazardous Substances

Unlikely based on existing information.

i.e. Unrestricted public access to exposed hazardous substances, runoff carries hazardous substances to surface water bodies, hazardous substances have migrated onto residential properties, population or workers exposed or injured (date, #)?

[X]Y [ ]N Waste fenced/access restricted (explain)
Condition of fence: _____ If fencing needed, estimate dimensions required: _____

Potential Threat of a Continuous Release of Hazardous Substances

Based on previous investigations, former tank containment features (berms) have been cut or leveled; therefore, allowing surface migration of contaminants from on-site sources.

i.e. Sources are poorly contained possibly threatening ground water, surface impoundments with inadequate diking near a surface water body, contamination of sewers or storm drains, lack of cover to prevent air release?

Potential Threat of Drinking Water Contamination

On-site domestic wells have been closed or abandoned due to oil contamination.
ESI reports groundwater is a major concern because of shallow groundwater use and because the site is located above an aquifer recharge area.

i.e. Threatened water intakes, suspected release to ground water where private residences rely on shallow ground water for drinking, underground storage tanks near public supply wells, private well users have reported foul-smelling and or tasting water?

Removal Considerations

Repair of secondary containment features; therefore, reducing the potential release to nearby Sandy Creek.

i.e. Containerize leaking drums, fences, security, capping, stabilizing waste, physical removal, pumping lagoons, air monitoring, field screening, preliminary sampling, etc.

PART IV - SAMPLES/FIELD SCREENING INFORMATION

Field Screening

☐ OVA	☐ Monitox	Specify
☐ HNu	☐ Air Monitoring	
☐ XRF	☐ Field Test Kit	
☐ AIM	☐ Draeger Tube (type & tube id#)	
☐ Hazcat	☐ Other	

Summary of Field Screening Results

Samples Collected

Sample Type	Number of Samples Taken	Samples Sent To	Estimated Date Results Available
Ground Water			
Surface Water			
Waste			
Air			
Runoff			
Spill			
Soil/Sediment			
Vegetation			
Other			

PART V - A. CERCLA ELIGIBILITY

Ref. #(s)_____

[X]Y [ ]N Did the facility cease operations prior to November 19, 1980?
If yes, stop, site is CERCLA eligible. If no, proceed to Part B

B. RCRA ELIGIBILITY Ref. #(s) _____

[ ]Y [X]N Did the facility file a RCRA Part A application? If yes:
[ ]Y [X]N 1. Does the facility currently have interim status?
[ ]Y [X]N 2. Did the facility withdraw its Part A application?
[ ]Y [X]N 3. Is the facility a known or possible protective filer?
[ ]Y [X]N 4. Type of facility:
Generator__ Transporter__ Recycler__ Treatment/Storage/Disposal (TSD)___
[ ]Y [X]N Does the facility have a RCRA operating or post closure permit?
[ ]Y [X]N Is the facility a late (after 11/19/90) or non-filer that has been identified by the EPA or State?

If all answers to questions in Part B are NO, stop, the facility is CERCLA eligible. If answers to 2 or 3 are YES, stop, the facility is CERCLA eligible. If answers to 2 and 3 are NO and any other answer is YES, site is RCRA, continue to Part C.

C. RCRA SITES ELIGIBLE FOR NPL Ref. #(s) _____

[ ]Y [ ]N Has the facility owner filed for bankruptcy under federal or state laws?
[ ]Y [ ]N Has the facility lost RCRA authorization to operate or shown probable unwillingness to carry out corrective action?
[ ]Y [ ]N Is the facility a TSD that converted to a generator, transporter or recycler after November 19, 1980?

D. EXEMPTED SUBSTANCES Ref. #(s) _____

[X]Y [ ]N Does the release involve hazardous substances other than petroleum including crude oil or any fraction thereof? If yes, site is CERCLA eligible. **Tank bottom waste**

PART VI - SITE ASSESSMENT RECONNAISSANCE ☐ On-Site ☐ Windshield

a. General Site Characteristics Ref. #(s) _____

Predominant Land Uses	Within 1 Mile		Site Setting	Approximate Size
☐ Industrial	☐ Agriculture	☐ DOI	☐ Urban	Acres: 108
☐ Commercial	☐ Mining	☐ Other Federal Facility	☐ Suburban	
☒ Residential	☐ DOD	_____	☒ Rural	or Square Feet:
☐ Forest/Fields	☐ DOE	☐ Other _____	☐ Other _____	

Type of Site Operations (check all that apply)

- ☐ Manufacturing (must check subcategory)
  - ☐ Lumber and Wood Products
  - ☐ Inorganic Chemicals
  - ☐ Plastic and/or Rubber Products
  - ☐ Paints, Varnishes
  - ☐ Industrial Organic Chemicals
  - ☐ Agricultural Chemicals (e.g., pesticides, fertilizers)
  - ☐ Miscellaneous Chemicals Products (e.g., adhesives, explosives, ink)
  - ☐ Primary Metals
  - ☐ Metal Coating, Plating, Engraving
  - ☐ Metal Forging, Stamping
  - ☐ Fabricated Structural Metal Products
  - ☐ Electronic Equipment
  - ☐ Other Manufacturing
- ☐ Mining
  - ☐ Metals
  - ☐ Coal
  - ☐ Oil and Gas
  - ☐ Non-metallic Minerals
- ☐ Retail
- ☐ Recycling
- ☐ Junk/Salvage Yard
- ☐ Municipal Landfill
- ☐ Other Landfill
- ☐ DOD
- ☐ DOE
- ☐ DOI
- ☐ Other Federal Facility _____
- ☐ RCRA
  - ☐ Treatment, Storage, or Disposal
  - ☐ Large Quantity Generator
  - ☐ Small Quantity Generator
  - ☐ Subtitle D
    - ☐ Municipal
    - ☐ Industrial
  - ☐ "Converter"
  - ☐ "Protective Filer"
  - ☐ "Non- or Late Filer"
- ☐ Not Specified
- ☒ Other Refining

Waste Generated

- ☒ On-site
- ☐ Off-site
- ☐ On-site and Off-site

Visible Soil Types

- ☐ Gravel
- ☐ Bedrock
- ☒ Silt
- ☒ Sand
- ☒ Clay
- ☐ Other _____

While in the area, if possible, contact the local soil conservation service to obtain a copy of the soil survey for the county or parish in which the site is located.

Operational history, background, processes, waste disposal, etc.

Wilcox Oil Co., operated as a crude oil refinery from the 1920s until 1963. From 1920 to 1928, it operated at a pilot production rate of 1,000 bbls/day. The facility was upgraded in 1929 and had and operated at a capacity of 4,000 bbls/day. Main components consisted of a skimming plant, cracking unit, redistillation battery with vapor recovery system, and continuous treating equipment.

b. Source Characterization

Indicate type(s) and quantity of sources on-site. Complete and attach a source characterization form (SCF) for each source and summarize the SCF on the following table (photodocument source and mark appropriate location on site sketch).

1. Physical States
(Enter all that apply by # in Column B)
   1. Solid
   2. Powder, fines
   3. Sludge
   4. Slurry
   5. Liquid
   6. Gas
   7. Other _____

2. Waste Characteristics
(Enter all that apply by # in Column C)
   1. Toxic
   2. Corrosive
   3. Radioactive
   4. Persistent
   5. Soluble
   6. Infectious
   7. Flammable
   8. Ignitable
   9. Highly Volatile
   10. Explosive
   11. Reactive
   12. Incompatible
   13. Not Applicable N/A

3. Treatment (if known)
(Enter all that apply by # in Column D)
   1. Incineration
   2. Underground Injection
   3. Chemical/Physical
   4. Biological
   5. Waste Oil Processing
   6. Solvent Recovery
   7. Other Recycling Recovery
   8. Other _____ (Specify)

A Source Type	B Enter #(s) from Box 1	C Enter #(s) from Box 2	D Enter #(s) from Box 3	E Active/ Inactive	F Estimated Quantity, Area or Volume (include units of measure)	G Description or Use Comments
Landfill (4)	1,3,5	1,2		In	23000 yd^2	areas that contain solids, liquids and sludges runoff enter and leaves these
Drums (4 areas)	1	1,2		In	500 yd^2	church 2 residences, and unvegetated area
Surface Impoundments						
Soil						
Tanks/Non-Drum Containers						
Land Treatment/Landfarm						
Piles (Tank Bottom -11)	1,3	1,2		In	7500 yd^2	bermed areas that had volumes from 1000-55000 barrels
Fire/Burn Pits						
Other/Additional						

Overall containment of wastes (check one)

☐ **Adequate (secure)** ☐ **Moderate** ☒ **Inadequate (poor)** ☐ **Insecure (unsound, dangerous)**

Evidence of migration from source area, description of diking, liners, barriers, engineered covers, run-on or runoff control systems, etc.

Refer to previous site investigations

Estimate the percentage of the site's surface that is

☒ **Exposed soil** 50% ☒ **Covered by buildings** 5% ☐ **Covered by pavement** ____ ☒ **Covered by vegetation** 45%
☐ **Covered by water** ____

List the presence (or absence) and type of plants observed on-site. If known, estimate percentages of different vegetative types (ie. tree canopy, shrubs, grass, ground cover, weeds, etc.).

Based on off-site inspection, the site is densely vegetated.

Describe any evidence or observation of animal species while on-site.

Turtles observed on railroad.
Fire ants observed.

Describe any known or observed recreational uses or human presence on the site (e.g., fishing, biking, footprints, tire tracks, vandalism, etc.). (Photodocument)

Two residences and one church on site.

General Types of Waste (check all that apply)

- ☐ Metals
- ☐ Organics
- ☐ Inorganics
- ☐ Solvents
- ☐ Paints/Pigments
- ☐ Laboratory/Hospital Waste
- ☐ Radioactive Waste
- ☐ Construction/Demolition Waste
- ☐ Pesticides/Herbicides
- ☒ Acids/Bases
- ☒ Oily Waste
- ☐ Municipal Waste
- ☐ Mining Waste
- ☐ Explosives
- ☐ Other _____

Specify substances below, if known (active facilities provide manifests, analytical data available)

HAZARDOUS SUBSTANCES

Category	Substance Name	Storage/Disposal Method	Concentration (include units of measure)
	TPH		85700 mg/kg
	lead		47000 mg/kg
	pyrene		54000 µg/kg
	xylenes		450 µg/kg
	Results from EPA ESI		

PART VII - SITE SKETCH (attached)
(Include north arrow, topography, distances, buildings, drainages, sources, stained soils, fences, etc.)

PART VIII - PHOTODOCUMENTATION (labeled photos attached)
(Include panoramas, targets, sources, recreation, stressed vegetation, sampling locations, etc.).

PART IX - TARGETS

a. Ground Water Pathway Ref.#(s)	**Target Distance Limit (TDL) = 4 Mile Radius**
[ ]Y [X]N During the site visit, did you field verify all ground water targets within a half mile?	Distance to nearest drinking water well ¼ Miles _____ Feet
[X]Y [ ]N Is ground water used for drinking water within 4 miles?	Depth to shallowest aquifer on-site? 40 Feet
[ ]Y [X]N Karst terrain present?	Nearest designated wellhead protection area ☐ Underlies site ☐ >0 - 4 miles ☒ None Within 4 miles
[X]Y [ ]N Is there a high likelihood of release to ground water?	

[ ]Y [X]N Have likely contaminated drinking water wells been identified? If yes, enter potentially affected population #_____

Population served by drinking water wells within the designated target distances. Note if the water supplies within that target distance radius are Private (P), Community (C) or Both (B).

Distance (miles)	Population	Type of Supply (P, C or B)
On-site	0	

0 to 1/4	3	P
1/4 to 1/2	0	
1/2 to 1	176	B
1 to 2	4368	B
2 to 3	54	P
3 to 4	78	P

Description of wells (including usage, blending of water system, depth, age and location).

Eight public supply water wells for the City of Bristow are within the 4-mile TDL.

[X]Y [ ]N Is ground water from any target well within the TDL, for the aquifer evaluated or overlying aquifers, used for the following resources: irrigation (5 acre minimum) of commercial food crops or forage crops, watering of commercial livestock, ingredient in commercial food preparation, supply for commercial aquaculture, supply for a major or designated water recreation area?

b. Surface Water Pathway Ref. #(s)_____ | **TDL = 15 Stream Miles**

[ ]Y [X]N Did you verify all surface water targets within 1 stream mile during the site visit?

Shortest overland distance from any source to surface water for each watershed

400 Feet _____ Miles

[X]Y [ ]N Is there a likelihood of a release to surface water? If yes, explain (e.g., water color, fish kills, stressed vegetation)

Surface water passes through contaminated ponds and pits as it flows to Send Creek.

Site is located in
- ☐ No floodplain
- ☐ Annual - 10 yr floodplain
- ☒ >10 yr - 100 yr floodplain
- ☐ >100 yr - 500 yr floodplain
- ☐ >500 yr floodplain

[ ]Y [X]N Did you observe any fishing or evidence of fishing in surface water bodies on or near the site? If yes, photodocument, specify the name of the water body and its distance from the site.

Annual Precipitation: 8.91 inches

Two Year, 24-Hour Rainfall: 4.25 inches

Type of surface water draining site and 15 miles downstream (check all that apply)

☒ Stream ☐ River ☐ Pond ☐ Lake ☐ Bay ☐ Ocean ☒ Other Intermittent

Identify the surface water bodies and flow rates (cubic feet per second, cfs) along a 15 stream mile pathway for each watershed. Identify the uses of each surface water body as

DW = Drinking water
F = Fishery
FP = Ingredient in commercial food preparation
I = Irrigation of commercial food crops or commercial forage crops
L = Watering of commercial livestock
N = None of the above, specify
R = Major or designated recreation area

Surface Water Body	Begin to End Distance	Stream Flow in cfs	Use(s)
Intermittent creeks	0-0.4		
Sand Creek	0.4-3.5	50 cfs	F,R
Little Deep Fork Creek	3.5-15	400 cfs	F,R

[ ]Y [X]N Any drinking water intakes located along 15 mile TDL? If yes, identify the population served by surface water intakes along the 15 stream mile pathway in the table below.

[X]Y [ ]N Probable Point of Entry (PPE) located and noted on site sketch? (PPE is the point where runoff from the site most likely enters surface water)

Surface Water Body	Distance to Intake from PPE	Population Served

[ ]Y [X]N/Unk Is drinking water system blended? If possible, make a note of percentages of contribution to system per intake.

List all Fisheries

Water Body/Fishery Name	Flow (cfs)	On-Site or Distance from PPE	Pounds Fish/Year*
Sand Creek	50	PPE	>0 lb/yr
Little Deep Fork Creek	400	3.5	>0 lb/yr

* Estimate pounds per year of fish, shellfish, etc. collected from each fishery and enter the correct range in the above table.

0 lbs
> 0 to 100
100 to 1,000
1,000 to 10,000
10,000 to 100,000
100,000 to 1,000,000
>1,000,000 Specify _____

[X]Y [ ]N Wetlands (as defined in 40 CFR Section 230.3) located along the surface water migration path?
If yes, list Wetlands

Water Body	Flow (cfs)	Frontage Miles
PF01A (Sand Creek)		.25
PF01A (Little Deep Fork Creek)		8.5

[ ]Y [ ]N Other Sensitive Environments (see 40 CFR Part 300, Section 4.1, Table 4-23) located along the surface water migration path?
If yes, list below

Sensitive Environments Type	Water Body Type	Distance From PPE/On-Site?

[ ]Y [X]N Is surface water used for one or more of the following resources within the TDL: irrigation of commercial food or forage crops (≥ 5 acres), watering commercial livestock, ingredient in commercial food preparation, supply for a major or designated water recreation area?

c. Soil Exposure Pathway Ref. #(s)_____	TDL = 1 Mile Radius
[X]Y [ ]N During the site visit, were targets within 500 feet field verified?	Number of residents who reside within 200 ft. of known or suspected contamination 5
[ ]Y [X]N School or daycare located within 200 feet of known or suspected contamination? If yes, enrollment Church is on-site	Number of workers on-site ☐ None ☒ 1 - 100 ☐ 101 - 1,000 ☐ >1,000
[ ]Y [X]N Are one of the following present in an area of observed contamination at the site: commercial agriculture, silviculture, livestock production or livestock grazing?	

[ ]Y [X]N Have Terrestrial Sensitive Environments been identified on or within 200 feet of known or suspected contamination? If yes, list each Terrestrial Sensitive Environment (see 40 CFR Part 300, Section 5.1, Table 5-5).

d. Air Pathway Ref. #(s)_____	TDL = 4 Mile Radius
[X]Y [ ]N During the site visit, were air targets within 1/2 mile field verified?	Distance to nearest regularly occupied building or individual resident _____ Feet _____ Mile
[ ]Y [X]N Evidence of blowing dust during site visit? [ ]Y [X]N Odors detected while on-site? [ ]Y [X]N Observed or suspected release to air? If observed, photodocument.	Enter total population on or within 5 On-site 57 0 - 1/4 Mile 495 > 1/4 - 1/2 Mile 1,836 > 1/2 - 1 Mile 2,691 > 1 - 2 Miles 1,917 > 2 - 3 Miles 517 > 3 - 4 Miles 6,618 Total Within 4 Miles
Predominant wind direction	
Are there schools within the 1 mile radius? If yes, Enrollment _____ # Employees _____	
[X]Y [ ]N Wetlands located within 4 miles of site?	

Estimate the total wetlands area (acres)	List all sensitive environments within 1/2 mile of the site		[ ]Y [ ]N Are one of the following resources present within 1/2 mile of a source on-site: commercial agriculture, silviculture, a major or designated recreation area (including a park)?
☐ <1 ☐ 1 - 50 ☐ 50 - 100 ☐ 150 - 200 ☐ 200 - 300 ☐ 300 - 400 ☐ 400 - 500 ☐ >500 acres	Distance	Sensitive Environment Type	
	On-site	None	
	0 - 1/4 Mile		
	>1/4-1/2 Mile		

PART X - SOURCES OF INFORMATION

Below cite specific information references by number, i.e. state files, sample analysis, ROCs, reports, etc. At the beginning of each section of this checklist, there is a space to enter the #(s) of each reference used in that section.

1. EPA Site Access Request for Expended Site Inspection. Sent to [redacted] P.O. Box 659, Bristow, Oklahoma, 74010. 8/6/96
2. Memorandum. "Potentially Responsible Party (PRP) Search." To the Wilcox Oil Company Site. From: David Cates, Superfund (Site Assessment Unit). 12/12/94.
3. Expanded Site Inspection Report for Wilcox Oil Company. Prepared by Roy F. Weston, Inc. for the EPA, Region VI. March 1997.

Source Characterization Form

DRUMS

Number of drums _____

On pallets ([ ]Y [ ]N) # _____ Leaking ([ ]Y [ ]N) # _____

Stained soil ([ ]Y [ ]N) Empty/full/both # ea. _____ Explosion hazard ([ ]Y [ ]N)

Condition of drums:

Containment (describe):

Maintenance (explain):

Labels ([ ]Y [ ]N) (describe):

Accessibility (fenced, etc.):

Residents/schools/daycare/workers within 200 feet (explain and indicate distances):

Comments:

Photodocument and note locations on site sketch.

Source Characterization Form

TANKS

Aboveground_____ Active/Inactive

Underground_____ Active/Inactive

Nondrum Containers_____

How many of each and sizes:

Permitted/registered (indicate per tank):

Leakage ([ ]Y [ ]N) (indicate per tank):

Containment (adequate diking, secondary containment capacity <> capacity of tank, etc.):

Waste stream in tanks/container:

Accessibility (fenced, etc.):

Residents/schools/daycare/workers within 200 feet (distance):

If tanks have been removed, obtain information about removal.

Comments:

Photodocument and note locations on site sketch.

Source Characterization Form

PILES

Number of piles 4

Size* 2200 yd^2 (Church) — Type/Contents: wastes from refinery operations (TPH)

Size* 750 yd^2 (b) residence) — Type/Contents: TPH

Size* 1100 yd^2 (unvegetated area) — Type/Contents: TPH

Size* 750 yd^2 (b) residence) — Type/Contents: TPH

*estimate area or give dimensions (note how measurements were taken i.e., pacing, tape measure, reference, etc.)

Process(es) responsible for piles:

refining, storage, transport, and disposal of facility products and wastes

Containment (covered, etc.):

None

Evidence of migration? via Air: _____ **via Water:** X

Describe:

Could migrate by runoff

Evidence of erosion (describe):

Accessibility (fenced, etc.):

Sample data:

Residents/schools/daycare/workers within 200 feet (distance):

Comments:

Photodocument locations and sketch location of piles on site sketch.

Source Characterization Form

STAINED SOILS

Number of areas 11 tank bottoms ranging from 150-300 feet in diameter

Size*(s) 1) Volumes range from 1000-55000 barrels

Size*(s) 2) Contents of former tanks include crude oil, fuel oil, gasoline, napthane, and kerosene.

Size*(s) 3)

Size*(s) 4) 4/11 tanks are still present

Size*(s) 5) Most of the berms for ASTs have been removed

Many areas contain oil, tarry, and black asphalt-like materials.

***Size = estimate area or give dimensions**

Method of measurement (pacing, metal tape measure, reference, etc.):

Is the stained soil in a drainage ditch (pathway) leading off-site? (explain):

Source of contamination for each stained area (indicate by number):

Sample data:

Accessibility (fenced, etc.):

Residents/school/daycare/workers within 200 feet (distance):

Comments:

Photodocument and sketch areas of stained soils on site sketch.

Source Characterizations Form

IMPOUNDMENTS

Size* 4 impoundments: 8,300yd^2, 33,300yd^2, 7,800yd^2, 3,300yd^2 Liquid ([ ]Y [ ]N) Overflow ([ ]Y [ ]N) Buried/backfilled ([ ]Y [ ]N)

Freeboard (ft) _____ Diking/berms ([ ]Y [ ]N) condition:

Leachate ([ ]Y [ ]N)

Lined ([ ]Y [ ]N) type:

Permitted discharge:

Dates of operation:

Waste quantity:

Type of waste:

Pond 1: 250×100 ft. backfilled without berms; has oily seeps
Pond 2: 400×250 ft. berm in SW corner has been cut which allows surface water to break impoundment; pond has grasses and shallow water.
Pond 3: 300 ft. diameter; contains black, tarry material; SW portion of the berm has been cut allowing run-off to breach the pit; strong tar odors.
(b) (6): 10,000 ft^2; intermittent creek flows through pond; contains some black-asphalt materials.

Containment (engineered, integrity - describe):

Observed/evidence that contents of impoundment have entered surface water ([ ]Y [ ]N) (explain):

Accessibility (fenced, etc.):

Residents/school/daycare/workers within 200 feet (distance):

Sample data:

Uses recreational:

Comments:

*Size: Note dimensions, area, or volume and method of measurement or reference.
Photodocument and sketch impoundments on site sketch.

Source Characterization Form

FIRES/BURN PITS

Fire/Burn Pits active ([ ]Y [ ]N)

Number of pits _____

Are burns controlled/monitored (explain):

Size(s):

Method of measurement (pacing, metal tape measure, reference, etc.):

Waste stream being burned:

Containment (describe):

Run-on/runoff controls:

Migration evident (explain): **PHOTOGRAPH**

Accessibility (fenced, etc.):

Resident/school/daycare/workers within 200 feet (indicate distance):

Comments:

Photodocument and sketch fire/burn pits on site sketch.

Source Characterization Form

LANDFILL

Size* _____ Years in operation _____

Waste Stream/Quantity: (Type I, II. III, IV)

Erosion (wind/water, indicate locations):

Evidence of biogas ([ ]Y [ ]N) describe:

Run-on/runoff Control ([ ]Y [ ]N) describe:

Ponding water ([ ]Y [ ]N) describe:

Lined ([ ]Y [ ]N) type/construction:

Covered ([ ]Y [ ]N) (engineered?) Thickness/construction/material:

Illegal dumping ([ ]Y [ ]N) evidence:

Waste accepted:

Mainfests available? ([ ]Y [ ]N) **Obtain copies.**

Leachate ([ ]Y [ ]N) describe:

Leachate controls ([ ]Y [ ]N) describe:

Public use (recreation, etc.):

Accessibility (fenced, etc.):

Sampling/monitoring data/evidence:

Residents/schools/daycare/workers within 200 feet (distance):

Comments:

*Specify area or dimensions or estimate volume from operation records.
Photodocument location and sketch landfill features on site sketch.

Source Characterization Form

OTHER

Description of source (be specific):

Size of source (volume, area or waste stream):

Method of measurement (pacing, metal tape measure, etc.):

Type of waste managed:

Evidence of hazardous substance migration from source:

Containment (describe):

Maintenance:

Accessibility:

Residents/schools/daycare/workers within 200 feet (explain and indicate distances):

Photodocument and note locations on site sketch.

Source Characterization Form

LANDFARM/LAND TREATMENT

Method of measurement (pacing, metal tape measure, reference, etc.):

Evidence of hazardous substance migration from land treatment zone:

Is land treatment area maintained in compliance with 40CFR.264.280? ([ ]Y [ ]N) explain:

Describe run-on control and runoff management system:

Describe presence or absence of vegetative cover:

Type of waste managed:

Quantity of waste managed (as provided):

_____ daily _____ weekly _____ monthly or _____ yearly

Sample data:

Photodocument and note locations on site sketch.

Ben Martich
Print Originator's Name
Ecology and Environment, Inc.

RECORD OF COMMUNICATION

Conversation with:	Date 06 /20 / 97 (Mo) (Day) (Year)
Name: (b) (6)	Time: 11:00 AM
Address: 1st. Assembly Church of God	[X] Originator Placed Call
Phone (b) (6)	[] Originator Received Call
Subject: Concerns with former Wilcox Refinery	

Discussion:

(b) is the church deacon. He helped install a water well in 1989. A charcoal filter was used with the well, but it made little difference. The water continually had a high hydrocarbon content. The church abandoned the well in 1990 and went back to city water. (b) said surface water entering the well was the main problem with the contamination. The well has been capped off and the pumphouse is locked.

Other concerns: when the city installed a new water line they came across a 2 feet steel line leaking crude. Concrete foundations are located in many places around the church just beneath the surface. Stained soil is all around and runoff always has a sheen. Also, (b) says it is very difficult to get grass to grow.

Follow-Up-Action:

Originator's Signature _____

Ben Martich
Print Originator's Name
Ecology and Environment, Inc.

RECORD OF COMMUNICATION

Conversation with:	Date 06 / 18 / 97 (Mo) (Day) (Year)
Name: (b) (6)	Time: 1:00 PM
Address:	[X] Originator Placed Call
Phone (b) (6)	[] Originator Received Call
Subject: his property at former Wilcox Refinery	

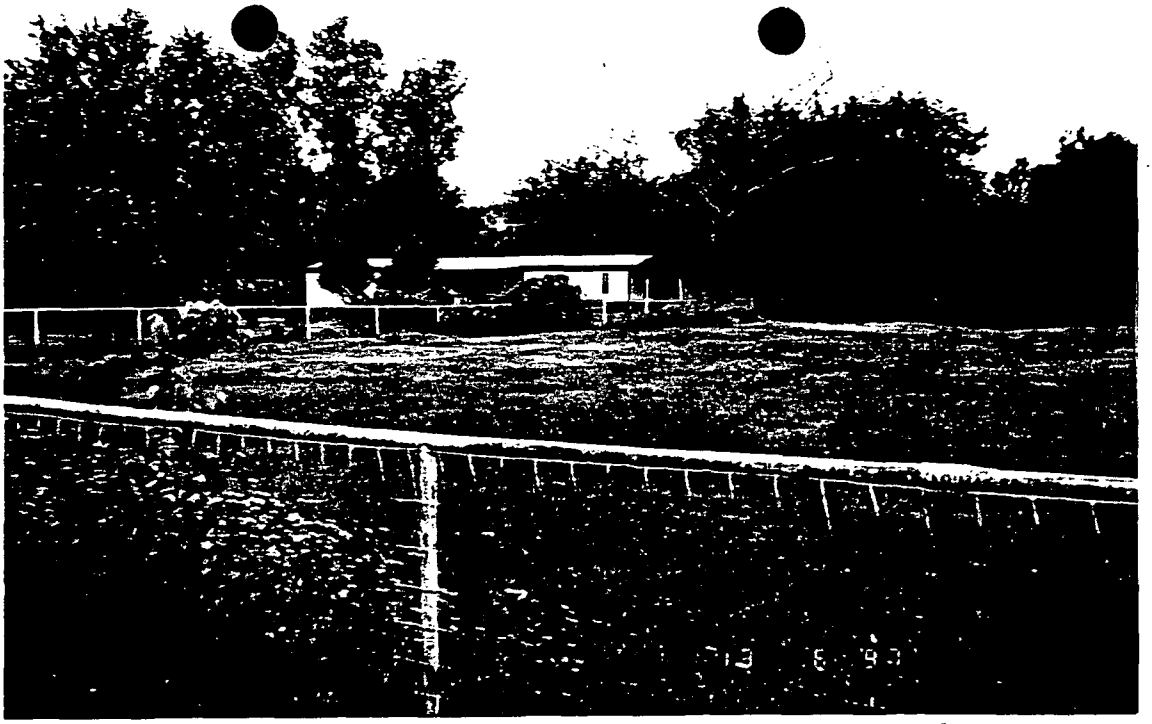
Discussion:

Spoke with (b) (6) concerning ground water usage and possible air/soil contamination. He has an active well on his property but he does not use it because the water has a high gasoline (petroleum) content. He says the contamination is occurring in the 45-Foot aquifer that is saturated with hydrocarbons. The 85-Foot aquifer, in which the well is screened. is clean he says. (b) (6) also informed me that well is not sealed off and can be easily utilized. (b) (6) son and his wife live in the residence at the site; they are on City (Bristow) water.

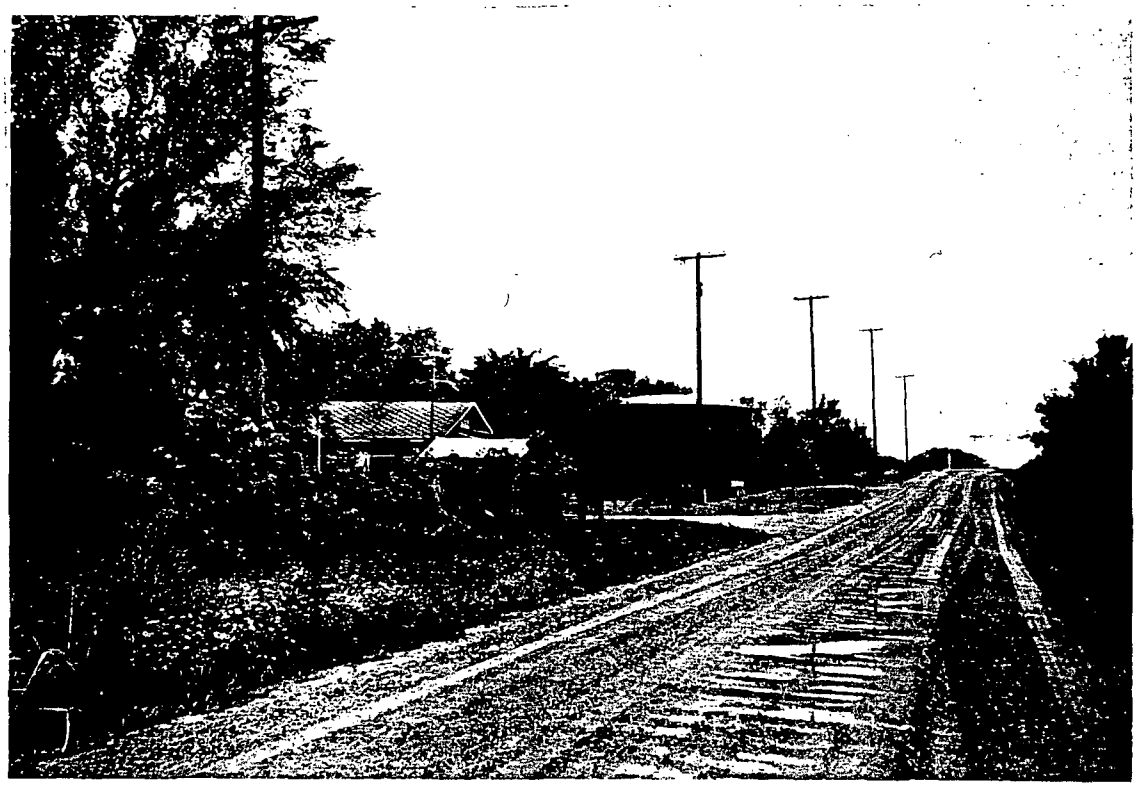
(b) (6) other complaints were that it took him 15 years to grow a tree on the property and an impoundment that he believes contains an acid-laced sludge. He says the sludge will detoriate anything.

Follow-Up-Action:

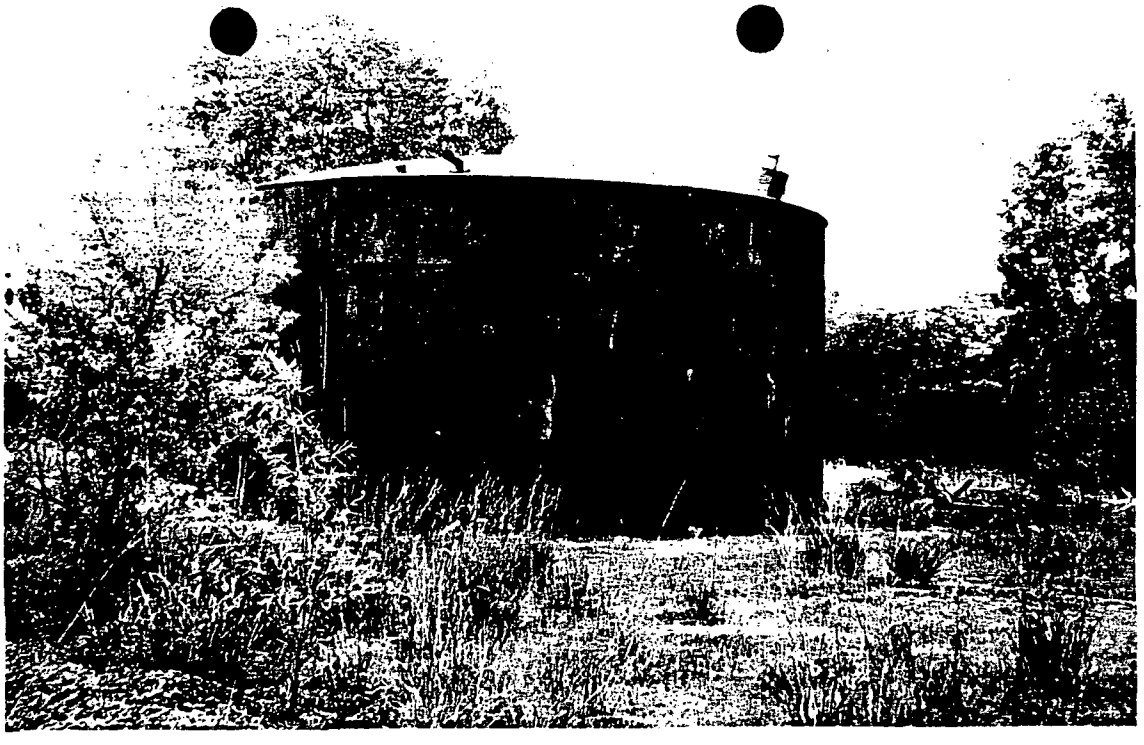
Originator's Signature _____



SITE NAME: Wilcox Refinery TDD#: S06-9606-026
PHOTO#: 101 PHOTOGRAPHER/WITNESS: Ben Martich/David Crow
DATE: 06/13/97 TIME: 0827 DIRECTION: Southwest
The (b) residence (on-site).



SITE NAME: Wilcox Refinery TDD#: S06-9606-026
PHOTO#: 102 PHOTOGRAPHER/WITNESS: David Crow/Ben Martich
DATE: 06/13/97 TIME: 0829 DIRECTION: West
The (b) residence (on-site) with abandoned oil storage tanks in the background.



SITE NAME: Wilcox Refinery TDD#: S06-9606-026
PHOTO#: 103 PHOTOGRAPHER/WITNESS: David Crow/Ben Martich
DATE: 06/13/97 TIME: 0901 DIRECTION: South
Abandoned oil storage tank located in the northwestern portion of the site.

SITE NAME: Wilcox Refinery TDD#: S06-9606-026
PHOTO#: 104 PHOTOGRAPHER/WITNESS: David Crow/Ben Martich
DATE: 06/13/97 TIME: 0945 DIRECTION: Southwest
1st Assembly Church of God located in the northwestern corner of the site.